

**Supplemental Table 1: Laboratory findings**

		<b>Mother (56 y)</b>	<b>Normal Range</b>
<b>Initial results</b>	<b>Hemoglobin</b> (g/dl)	14.7	11.5-15.5
	<b>Hematocrit</b> (%)	44.4	31.0-45.0
	<b>WBC</b> (cells/mm <sup>3</sup> )	<b>4300</b>	4500-13500
	<b>Neutrophils</b> % (mm <sup>3</sup> )	49 (2107)	32-54
	<b>Lymphocytes</b> % (mm <sup>3</sup> )	39 (1677)	28-48
	<b>Monocytes</b> (%)	5	3-6
	<b>Platelets</b> (10 <sup>3</sup> /μL)	219	150-450
	<b>IgG</b> (mg/dl)	<b>728</b>	951-1421
	<b>IgA</b> (mg/dl)	<b>479</b>	87-239
	<b>IgM</b> (mg/dl)	131	68-182
	<b>IgE</b> (UI/ml)	ND	≤ 90
	<b>C3/ C4</b> (mg/dl)	122 / 24	90-150/15-35
<b>Tetanus Toxoid</b> (UI/ml)	0.86		
<b>Autoantibodies</b>	(+)* 1/160 (Fine speckled) (-)#		
<b>Cellular response</b>	<b>CD3</b> % (mm <sup>3</sup> )	79 (1325)	55-83
	<b>CD4</b> % (mm <sup>3</sup> )	54 (906)	28-57
	<b>CD8</b> % (mm <sup>3</sup> )	24 (402)	19-34
	<b>CD19</b> % (mm <sup>3</sup> )	16.2 (272)	10-31
	<b>CD56</b> % (mm <sup>3</sup> )	<b>3.6 (69)</b>	4-26
	<b>Naïve CD4<sup>+</sup> %</b>	<b>24.9</b>	34.8-70.3
	<b>Central memory CD4<sup>+</sup> %</b>	<b>59.3</b>	24.3-42.7
	<b>Effector memory CD4<sup>+</sup> %</b>	<b>15.5</b>	2.1-7.4
	<b>Terminal Effector CD4<sup>+</sup> %</b>	<b>0.3</b>	2.0-7.2
	<b>HLA-DR CD4<sup>+</sup> %</b>	<b>22.6</b>	0.8-2.2
	<b>Naïve CD8<sup>+</sup> %</b>	<b>11.6</b>	48.6-87.5
	<b>Central memory CD8<sup>+</sup> %</b>	34.2	9.8-37.6
	<b>Effector memory CD8<sup>+</sup> %</b>	<b>23.6</b>	0.2-6.9
	<b>Terminal Effector CD8<sup>+</sup> %</b>	<b>26.6</b>	0.8-14.0
	<b>HLA-DR CD8<sup>+</sup> %</b>	<b>71.1</b>	1.2-8.1
	<b>Naïve CD19<sup>+</sup> %</b>	46.1	
	<b>IgM memory B cells %</b>	<b>19.7</b>	10.0-16.8
	<b>Switched Memory %</b>	<b>30.7</b>	14.0-20.6
<b>Transitional B cells %</b>	0.8	2.3-4.0	
<b>CD21<sup>low</sup> %</b>	<b>9.7</b>	< 9.0	
<b>Plasmablast Cells %</b>	0.4	0.1-0.2	

Abbreviations: \*anti-nuclear antibodies, # tested autoantibodies: anti-mitochondrial, anti-parietal cell, anti-smooth muscle, anti-transglutaminase, liver-kidney microsome.

Note: Bold numbers represent abnormal values for age matched donors. \*Under IVIG treatment; ND, *not done*; **T cells (gated on CD3<sup>+</sup> CD4<sup>+</sup> or CD3<sup>+</sup>CD8<sup>+</sup> cells):** Naïve T cells (CD45RA<sup>+</sup>CD27<sup>+</sup>); Central memory T cells (CD45RA<sup>-</sup>CD27<sup>+</sup>); Effector memory T cells (CD45RA<sup>-</sup>CD27<sup>-</sup>); Terminal effector T cells (CD45RA<sup>+</sup>CD27<sup>-</sup>); Th1 memory (CD45RA<sup>-</sup>CXCR3<sup>+</sup> CCR6<sup>-</sup>); Th2 memory (CD45RA<sup>-</sup>CXCR3<sup>-</sup> CCR6<sup>+</sup>); Th17 memory (CD45RA<sup>-</sup>CXCR3<sup>-</sup> CCR6<sup>+</sup>); **B cells (gated on CD19<sup>+</sup> cells):** Naïve B cells (IgM<sup>+</sup>IgD<sup>+</sup>CD27<sup>-</sup>); IgM memory B cells (IgM<sup>+</sup>IgD<sup>+</sup> CD27<sup>+</sup>); Switched Memory (IgD<sup>-</sup>IgM<sup>+</sup>CD38<sup>+/+</sup>); Transitional B cells (CD38<sup>++</sup>CD24<sup>++</sup>); CD21<sup>low</sup> B cells (CD21<sup>low</sup>CD38<sup>+/+</sup>); Plasmablasts (CD38<sup>++</sup>CD27<sup>++</sup>).